

Title (en)

STRUCTURE FOR REDUCING A FLOW RESISTANCE OF A BODY IN A FLUID

Title (de)

STRUKTUR ZUR VERRINGERUNG EINES STRÖMUNGSWIDERSTANDS EINES KÖRPERS IN EINEM FLUID

Title (fr)

STRUCTURE DESTINÉE À RÉDUIRE UNE RÉSISTANCE À L'ÉCOULEMENT D'UN CORPS DANS UN FLUIDE

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Application

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Abstract (en)

[origin: WO2011091546A1] The invention relates to a body (10) having at least one surface (12) over which a fluid (30) can flow, said surface having a global course that defines a main flow direction (14) over the surface (12). The surface (12) at least partially has a structure for reducing a flow resistance of the body (10), the structure having at least one recess (16.2...16.3) provided with a substantially circle-segment-shaped cross-section for inducing a fluid eddy (26.2...26.3). The body is characterized in that the structure has at least one lead-in section (18.2...18.3), which is angled from the main flow direction in the direction of the recess (16.2...16.3) and which is arranged upstream of the recess (16.2...16.3) in the main flow direction, for leading a fluid flow (24) into the recess (16.2...16.3). By means of the structure, a fluid eddy (26.2...26.3) can be induced within the recess (16.2...16.3) and can be localized substantially within the recess (16.2...16.3).

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